

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): An air intake device [[for]] in combination with an internal combustion engine, said ~~system~~ device comprising:

a primary inlet duct having a front end provided with an inlet opening and an outlet end, said outlet end of said primary duct being in fluid communication with at least one cylinder of said internal combustion engine; and

a secondary inlet duct having a inlet end provided with an inlet opening and a rear end closed with a reflector wall having a hole therethrough, said inlet opening of said secondary inlet duct receiving intake air;

said primary inlet duct extending through said hole in said reflector wall of said secondary inlet duct so that a portion of said primary inlet duct is disposed within said secondary inlet duct in a radially spaced relationship forming a double-tube chamber within said secondary inlet duct including a resonant cavity defined between said primary inlet duct and said secondary inlet duct;

said double-tube chamber is sized so as to generate sound waves enhancing propagation of an intake air flow toward said at least one cylinder of said internal combustion engine through said primary inlet duct.

Claim 2 (original): The air intake device as defined in claim 1, wherein said inlet opening of said secondary inlet duct receives said intake air through an air filter connected to said inlet end of said secondary inlet duct.

Claim 3 (original): The air intake device as defined in claim 1, wherein both said primary inlet duct and said secondary inlet duct have substantially circular cross-section.

Claim 4 (original): The air intake device as defined in claim 3, wherein said cross-section of both said primary inlet duct and said secondary inlet duct is substantially constant along the length thereof.

Claim 5 (original): The air intake device as defined in claim 1, wherein said reflector wall is substantially orthogonal to an outer peripheral surface of said rear end of said secondary inlet duct.

Claim 6 (original): The air intake device as defined in claim 1, wherein both said primary inlet duct and said secondary inlet duct and said reflector wall are made of a substantially rigid material.

Claim 7 (currently amended): The air intake device as defined in claim ~~[[7]]~~ 1, wherein said material is aluminum or aluminum alloy.

Claim 8 (original): The air intake device as defined in claim 1, wherein said resonant cavity is substantially cylindrical in shape and has a front open end and a rear end closed by said reflector wall.

Claim 9 (original): The air intake device as defined in claim 1, wherein said primary inlet duct is rigidly fixed to said secondary inlet duct.

Claim 10 (original): The air intake device as defined in claim 9, wherein said primary inlet duct is rigidly fixed to said secondary inlet duct through said reflector wall.

Claim 11 (new): An air intake device comprising:

a primary inlet duct having a front end provided with an inlet opening and an outlet end;
and

a secondary inlet duct having a inlet end provided with an inlet opening and a rear end closed with a reflector wall having a hole therethrough, said inlet opening of said secondary inlet duct provided for receiving ambient air;

said primary inlet duct extending through said hole in said reflector wall of said secondary inlet duct so that a portion of said primary inlet duct is disposed within said secondary inlet duct in a radially spaced relationship forming a double-tube chamber within said secondary inlet duct including a resonant cavity defined between said primary inlet duct and said secondary inlet duct;

said double-tube chamber is sized so as to generate sound waves enhancing propagation

of an intake air flow through said air intake device in the direction from said inlet end of said secondary inlet duct toward said outlet end of said primary inlet duct.

Claim 12 (new): The air intake device as defined in claim 11, wherein said inlet opening of said secondary inlet duct receives said intake air through an air filter connected to said inlet end of said secondary inlet duct.

Claim 13 (new): The air intake device as defined in claim 11, wherein both said primary inlet duct and said secondary inlet duct have substantially circular cross-section.

Claim 14 (new): The air intake device as defined in claim 13, wherein said cross-section of both said primary inlet duct and said secondary inlet duct is substantially constant along the length thereof.

Claim 15 (new): The air intake device as defined in claim 11, wherein said reflector wall is substantially orthogonal to an outer peripheral surface of said rear end of said secondary inlet duct.

Claim 16 (new): The air intake device as defined in claim 11, wherein both said primary inlet duct and said secondary inlet duct and said reflector wall are made of a substantially rigid material.

Claim 17 (new): The air intake device as defined in claim 11, wherein said material is aluminum or aluminum alloy.

Claim 18 (new): The air intake device as defined in claim 11, wherein said resonant cavity is substantially cylindrical in shape and has a front open end and a rear end closed by said reflector wall.

Claim 19 (new): The air intake device as defined in claim 11, wherein said primary inlet duct is rigidly fixed to said secondary inlet duct.

Claim 20 (new): The air intake device as defined in claim 19, wherein said primary inlet duct is rigidly fixed to said secondary inlet duct through said reflector wall.